

ABSTRACT OF THE DISCLOSURE

5 Liquid, injectable, aqueous solutions are transformed *in situ* to an
expandable foam-like, space filling, and adherent biomaterial. Preferably,
the foam-like biomaterial is the reaction product of a two-part liquid
system to achieve the *in situ* formation thereof. The liquid system is
generally comprised of a protein solution and a cross linker solution which
10 may either be premixed and then applied to a site in need of the
biomaterial, or simultaneously mixed and delivered through an in-line
mixing/dispensing tip directly to the site. In especially preferred
embodiments, an expandable foam-like biomaterial includes the reaction
product of human or animal-derived protein material and a di- or
15 polyaldehyde in the presence of a bicarbonate and an acidic titrant
amounts sufficient to impart a cellular foam structure to the material.